



Montana Department of Transportation
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Memorandum

To: Distribution

From: Paul Ferry, P.E.
Highways Engineer

Date: June 29, 2004

Subject: Cover Material Revision
Asphalt Cement Quantities

Cover Material

Construction recently distributed a memo discussing a variety of changes in the application of seal and cover. The following information summarizes the changes to the plans that will result from these new materials and procedures.

1. Two types of cover material will now be used depending on the type of project. The cover material will now be designated as Cover - Type I and Cover - Type II, which correspond to Grade 4A and Grade 2A aggregate respectively.
 - Cover - Type I (Grade 4A) will be utilized for all rural projects
 - Cover - Type II (Grade 2A) will be utilized in areas where a combination of turning movements and higher ADT are a concern, (i.e. interchanges, major intersections, urban projects).
2. Cover – Type I & II will be measured and paid by the square meter (yard)
 - Use the title, Cover – Type I or Cover - Type II as the heading in the Surfacing Summary.
 - Continue to show the application rate for cover in the Basis of Plan Quantities (e.g. 14.0 kg per square meter). The application rate is the same for Cover - Type I and Type II.
3. The same seal oil will be used for both types of cover material (typically CRS-2P). The seal oil will continue to be measured and paid by the ton.

Projects that include both urban and rural roadway work may require both Type I & Type II cover material. The decision to use two types of cover material will be documented in the Scope of Work Report.

Include the new method of measurement and payment in all projects starting with the November letting.

Asphalt Cement for Grade S Plant Mix

We are consistently overrunning the quantities of asphalt cement on projects that use Grade S plant mix. We have discussed this issue and Construction has determined that we should use the following percentages to determine the quantities of asphalt cement. These percentages will replace the 5.1% for Grade S that is currently specified in the Road Design Manual.

- For Grade S plant mix - 19 mm aggregate, use 5.4%
- For Grade S - 12.5 mm aggregate, use 5.8%.
- Change the Basis of Plan Quantities accordingly

Use these percentages to calculate or revise the quantities of asphalt cement on all projects that have not been submitted to the Contract Plans Bureau.

The Materials Bureau is evaluating their plant mix specifications. Consequently, these percentages may change. However, use the percentages for asphalt cement until they superceded by memo.

If you have questions concerning this, please contact me at 444-6244.

Pf.

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